

**PATENT COOPERATION TREATY
PCT**

COPY

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | | |
|--|--|---|---|
| Applicant's or agent's file reference 124199x355 | FOR FURTHER ACTION | | see Form PCT/ISA/220 as well as, where applicable, item 5 below. |
| International application No. PCT/NZ2004/000267 | International filing date (day/month/year) 26 October 2004 | (Earliest) Priority Date (day/month/year) 24 October 2003 | |
| Applicant AGRESEARCH LIMITED et al | | | |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box No. II).

3. ☐ Unity of invention is lacking (See Box No. III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

Multiple active agents such as anthelmintics sustained release delivery

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-3, 14-18, and 21-27
because they relate to subject matter not required to be searched by this Authority, namely:
They are so broad that it would be economically infeasible to carry out a search that would cover the scope of the claims.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: A61K 31/4184, 31/366, A61P 33/10, 33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Medline, DWPI: lactone, anthelmintic, slow release, 7ectin, 7bemycin, benzimidazole, albendazole, bolus, implant, tablet, pill, capsule, controlled, sustained, parasite, helminth, nematode, cestode, trematode

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|--------------------------------|
| Y | AU 52162/96 A (694016) (Virbac Australia Pty. Ltd.) 21 November 1996. See whole document | 1-10, 14, 15, 19, 20, 24-27 |
| X | Hennesy, D.R. "Modifying the formulation or delivery mechanism to increase the activity of anthelmintic compounds." Veterinary Parasitology, 1997 Nov; 72(3-4): 367-82; | 1-9, 14-27 |
| Y | Awadzi K, Addy ET, Opoku NO, Plenge-Bonig A, Buttner DW. "The chemotherapy of onchocerciasis XX: ivermectin in combination with albendazole." Trop Med Parasitol. 1995 Dec; 46(4): 213-20. | 1-27 |

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

| | |
|---|--|
| * Special categories of cited documents: | |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "E" earlier application or patent but published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means | "&" document member of the same patent family |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
8 March 2005

Date of mailing of the international search report

18 MAR 2005

Name and mailing address of the ISA/AU

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|--|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | Grimshaw WT, Hong C, Webster R, Hunt KR. "Development of immunity to lungworm in vaccinated calves treated with an ivermectin sustained release bolus or an oxfendazole pulse release bolus at turnout." Vet Parasitol. 1996 Mar; 62(1-2): 119-24. | 1-7, 14, 19-27 |
| Y | Larsen JW, Vizard AL, Anderson N. "Production losses in Merino ewes and financial penalties caused by trichostrongylid infections during winter and spring." Aust Vet J. 1995 Feb; 72(2): 58-63 | 1-7, 10, 14-27 |
| X | Anderson N and Laby RH. "Activity against Ostertagia ostertagi of low doses of oxfendazole continuously released from intraruminal capsules in cattle." Aust Vet J. 1979 May;55(5):244-6. | 1-5, 10, 14, 19-27 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000267

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in
Search Report

Patent Family Member

AU 52162/96 NZ 286545

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX